Hamza Ghafoor

Full-Stack Software Engineer | Backend & Platform Systems

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Professional Summary

Full-stack software engineer with 4 years of production experience designing, building, and operating systems end to end: product features, APIs, asynchronous workers, CI/CD, and Kubernetes. Architected a multi-courier logistics and settlement platform (9 providers, designed for 100K+ orders), owns Stripe Connect marketplace payments, ships production AI agents, and ran a 200+ deployment Kubernetes fleet. Delivers across SaaS, on-premises, and air-gapped enterprise environments.

Technical Skills

Languages: TypeScript, JavaScript, Go, Python, SQL, HTML, CSS
Backend: Node.js, Express, REST APIs, GraphQL, Laravel, BullMQ, Amazon SQS, Stripe Connect
Frontend & Mobile: React, React Native, Next.js, Tailwind CSS, shadcn/ui
Data: PostgreSQL, MongoDB, MySQL, Redis, Prisma, Drizzle, Kysely
Cloud & DevOps: Docker, Kubernetes, Helm, kOps, GitHub Actions, Jenkins, NGINX Ingress, cert-manager, Longhorn, Prometheus, Grafana, AWS (S3, SQS, RDS)
Architecture: Multi-tenant SaaS, async processing, provider abstraction, backup/DR, on-prem and air-gapped delivery

Professional Experience

Full-Stack Software Engineer Dec 2025 – Present
MilestoneZero *Pakistan*

- Architected integration and settlement workflows across 9 courier providers (including PostEx, Leopards, and M&P), normalizing heterogeneous APIs, statuses, charges, invoices, returns, and claims into one logistics domain model.
- Built BullMQ and Amazon SQS worker pipelines designed for 100K+ orders, with scheduling, concurrency and rate-limit controls, retries with backoff, dead-letter queues (DLQs), and reprocessing to isolate provider failures.
- Implemented reconciliation and settlement (CPR/invoice ingestion, contract-based charge matching, discrepancy analysis, returns/claims, net receivables) for finance and operations cash-flow visibility.
- Own Stripe Connect payment infrastructure for an international events marketplace: host Connected Accounts, fund holding, business-rule-driven delayed transfers and payouts, refunds, and reversals.
- Designed and deployed a sustainability platform for Abu Dhabi Police on air-gapped, on-premises Kubernetes, within licensed-software, domain-authenticated database, and Linux–Windows/Kerberos constraints.
- Shipped production AI features (personalized message generation, booking-agent order summaries, and a WhatsApp order-creation agent with user and address validation), reducing a 15–30 minute order-capture task to seconds.
- Conduct hiring and technical interviews; resolve production integration and microservice issues.

Full-Stack Software Engineer Nov 2022 – Nov 2025
AxonERP (core product; scaled from Multi-Techno) *Pakistan*

- Designed and operated on-premises Kubernetes (kOps, Helm) for 200+ client deployments with multi-tenant isolation, Dockerized applications and databases, PV/PVC storage, and Redis-backed workloads.
- Led the migration from manual releases to GitHub Actions and Jenkins CI/CD (image builds, database migrations, seeding, zero-downtime Helm upgrades), cutting deployment cycles from hours to minutes.
- Designed and shipped ERP features and a client-operations admin panel with React, Next.js, TypeScript, Node.js, REST/GraphQL, PostgreSQL, and MongoDB, focused on performance and data integrity.
- Operated NGINX Ingress, cert-manager, Prometheus/Grafana monitoring, Longhorn backups, and cluster and database restore procedures for stable production delivery.
- Integrated n8n and WhatsApp Business APIs; collaborated with product, design, and QA; contributed to code reviews and clean-architecture standards.

Open-Source Projects

- **Arch CLI** (Go, Sep 2025): CLI that scaffolds feature-based Clean Architecture projects. github.com/Mrhamza01/arch
- **AI Article Summarizer** (GPT-4, React, Vite): article summarization. github.com/Mrhamza01/AI-summarizer

Education

B.S. Computer Science, Virtual University of Pakistan 2020 – 2024

Certifications

IBM Full Stack Software Developer Specialization (Coursera) | Back End Development and APIs (freeCodeCamp)